Design and Implementation of Virtual Simulation Software to Display Information on Weather Indicators to Manage and Control Urban Policy-Making

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1. Round 1

1.1 Reviewer 1

Reviewer:

"The first component is designed to provide users with a simple and convenient means to input or upload their data."

Comment: This sentence would benefit from a more detailed explanation of how the simplicity and convenience are achieved. Consider elaborating on the specific features that contribute to the user-friendly nature of the data entry component.

"This comprehensive and precise depiction of relationships among components simplifies complex phenomena making them more comprehensible and manageable (Alavani 2000; Razeghi 2002)."

Comment: While this sentence is well-supported, it would be beneficial to include specific examples of complex phenomena that are simplified by this approach to provide clearer context.

"The 'MyObject' model is implemented to represent these objects including fields such as a unique identifier (MyObjectID) name (Name) object type (ObjectType) position (Position) rotation (Rotation) scale (Scale) color (Color) and additional data (Data)."

Comment: This list of fields is useful but consider adding a brief explanation of the purpose and importance of each field in the context of the simulation.

"Database tables are created using Microsoft SQL Server to store entities."

Comment: It would be helpful to provide more detail on why Microsoft SQL Server was chosen over other database management systems. Discuss any specific advantages it offers for this project.

"Controllers are defined to manage data through various actions such as Index Create Details Edit and Delete."

Comment: Consider adding a flowchart or diagram to visually represent how these actions interact with the database. This would aid in understanding the data management process.

"This visual inspection ensures accuracy and correctness of the data representation."

Comment: It would be helpful to explain the criteria or benchmarks used during visual inspection to determine the accuracy and correctness of the data representation.

"This sequential data entry was essential for accurate representation in the database."

Comment: Discuss the steps taken to ensure data accuracy during this sequential entry process. Were there any checks or validations in place?

"This approach aligns with the concept of smart cities which rely on advanced technologies to enhance the quality of urban living through efficient and sustainable management of resources (Scientific Visualization 2010)."

Comment: Consider discussing specific smart city projects or technologies that have successfully implemented similar visualization tools. This would provide concrete examples of the concept in action.

Author revised the manuscript and uploaded the updated document.

1.2 Reviewer 2

Reviewer:

"Objects in our environment are represented as simple and complex geometric models."

Comment: Clarify what is meant by 'our environment.' Is this referring to a specific urban environment, a general term for the simulated environment, or something else? Specificity would aid reader understanding.

"The process includes retrieving data and creating objects in the simulated environment using C#."

Comment: More detail on how C# is used in this context would be beneficial. Include a brief description or example code snippet illustrating this process.

"The system assigns unique codes to each 3D object defined in the panel ensuring unique identification (Primary Key)."

Comment: Consider elaborating on how these unique codes are generated and maintained to avoid conflicts and ensure data integrity.

"Effective visualization techniques provide a clear and concise view of complex data making it easier for decision-makers to comprehend and act upon the information presented (Thomas & Cook 2005)."

Comment: Strengthen this point by including specific examples or case studies where effective visualization directly impacted decision-making processes.

"We created a mapping structure that divided the city into different cubes based on the geographical locations of the areas and then categorized them according to each zone."

Comment: Provide more details on the methodology used for this mapping structure. How were the geographical locations determined and categorized?

Author revised the manuscript and uploaded the updated document.

2. Revised

Editor's decision after revisions: Accepted.

Editor in Chief's decision: Accepted.